



Amoco Production Company

Post Office Box 17675
Salt Lake City, Utah 84117
801-272-9253

W. M. Jones
District Superintendent

December 19, 1979

Mr. William K. Dinehart, Director
Division of State Lands
Room 411 - Empire Building
Salt Lake City, UT 84111

File: WMJ-1922-WF

Application for Permit to Drill the State of Utah "N" #1, Tooele County, Utah

In accordance with Section 6, Paragraph (1), of the "Oil, Gas, and Hydrocarbon" lease issued by the State Land Board in June, 1973, Amoco Production Company hereby requests permission to drill the subject well at a location in the SE/4 SW/4 Section 4, Township 1 South, Range 4 West, SLBM, Tooele County, Utah.

Under the provisions of the aforementioned section, no well may be drilled "within any area South of the Salt Lake Base Line" without the written authorization of the State Land Board. As a result, please consider this letter and the accompanying "Application for Permit to Drill" as Amoco's request for such authorization.

As said well is scheduled for drilling within approximately 30 days, your prompt review and decision would be appreciated. However, should it be determined that a hearing will be required, please notify this office immediately by calling 272-9253 and advising Mr. Don S. Davidson.

W. M. Jones
District Superintendent

Attachments

✓ cc:
Mr. Cleon B. Feight, Director
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

SW/crj

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING**CONFIDENTIAL**

5. Lease Designation and Serial No.

ML-28495

6. If Indian, Allottee or Tribe Name

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

7. Unit Agreement Name

b. Type of Well

Oil Well ☒Gas Well ☐

Other

Single Zone ☐Multiple Zone ☐

8. Farm or Lease Name

State of Utah 'N'

9. Well No.

#1

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk.
and Survey or Area

Sec. 4, T1S, R4W S1EM

12. County or Parrish 13. State

Tooele

Utah

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drlg. line, if any)

660'

16. No. of acres in lease

1920.00 acres

17. No. of acres assigned
to this well18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft.

19. Proposed depth

6,000' *min zone*

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4200' Lake Level

22. Approx. date work will start*

When Approved

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20" Drive Pipe	94#	300'	
17 1/2"	13 3/8"	48#	1000'	suff. to circulate to surface
12 1/4"	9 5/8"	43.5#	6000'	Upon logging, cement sufficient to cover pay and aquifer

TIGHT HOLEPropose to drill a well to test the Tertiary Beds of Great Salt Lake

Well to be drilled in the Great Salt Lake in compliance with the State of Utah "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake" adopted July 18, 1973. An Oil Spill Contingency Plan is on file with your office.

"See Attachments"

* Note: Survey plats will be forwarded to your office upon preparation

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

D. Davidson

Title Dist. Admin. Supervisor

Date 12/18/79

(This space for Federal or State office use)

Permit No.

43-045-30010

Approval Date

Approved by
Conditions of approval, if any:

Title

Date

ATTACHMENT TO FORM OGC-1a

State of Utah 'N' #1

1. Geologic name of the surface formation: Tertiary

2. Estimated tops of geological markers:

Miocene	3600'
Paleozoic	5600'

3. Estimated depths anticipated to encounter water, oil or gas and other mineral-bearing formations:

See Item #2 above

4. Casing Program: See Form OGCl a, Item #23

5. Operators specifications for pressure control equipment are shown on the attached schematic diagram. Testing of such shall be in compliance with the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake".

6. Mud Program:

Surface to Total Depth:	Low solid, non-dispersed, 8.6 - 9.0 #/gal. Viscosity as required to clean hole.
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7. Testing Program:

Drill stem tests will be run at the discretion of the Denver Exploration Department

Logging Program:

Dual Induction - SFL	Base of conductor pipe to TD
Integrated BHC-GR Sonic	
w/Caliper	" " " "
CNL-FDC w/GR	" " " "
High resolution dipmeter	" " " "
High resolution temperature	Surface to TD
survey & Velocity Survey	

Coring Program:

Cores to be taken at the discretion of the Denver Exploration Department

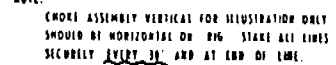
Stimulation Program:

To be determined by the Denver Division office upon completion of drilling operations

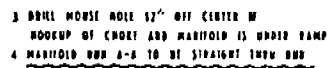
8. No abnormal pressures, temperatures, or hydrogen sulfide gas are anticipated.
9. It is anticipated that drilling operations will commence when approved and duration of operations will be approximately 30 days.

5,000 psi W.P.

2. WEAR RING TO BE PROPERLY
INSTALLED IN HEAD.



- NOTE:
ALL VALVES TO BE FULL OPENING



1-14-75

CONFIDENTIAL

** FILE NOTATIONS **

DATE: 12/27

OPERATOR: Amoco

WELL No. stab N-1

LOCATION: SEC. 4 T. 15 R. 4W COUNTY Toronto

FILE PREPARED: _____

ENTERED ON NID: _____

CARD INDEXED: _____

COMPLETION SHEET: _____

API NUMBER: 43-045-30010

CHECKED BY: _____

GEOLOGICAL ENGINEER: _____

PETROLEUM ENGINEER: M. J. Minahan water gone per call (6-2-80)
to Rex Larson Water Qual. nothing to worry about below 300'

DIRECTOR: OK & Confirmed upon survey plat

APPROVAL LETTER: very pleased

BOND REQUIRED: _____

SURVEY PLAT REQUIRED: ✓

ORDER No. 150-2 12/20/74

O.K. RULE C-3 ✓

RULE C-3(c), TOPOGRAPHIC EXCEPTION/COMPANY OWNS OR CONTROLS ACREAGE
WITHIN A 660' RADIUS OF PROPOSED SITE _____

LEASE DESIGNATION State

PLOTTED ON MAP ✓

APPROVAL LETTER WRITTEN ✓

btm

GSL
approval
+ plat

h1
PT

CONFIDENTIAL

40
January 4, 1979

Amoco Production Company
P.O. Box 17675
Salt Lake City, Utah 84117

Re: Well No. State of Utah H-1, Sec. 28, T. 5N, R. 8W, Box Elder County, Utah
Well No. State of Utah N-1, Sec. 4, T. 11S, R. 4W, Tooele County, Utah
Well No. State of Utah O-1, Sec. 14, T. 4N, R. 8E, Box Elder County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Order issued in Cause No. 150-2, dated November 20, 1974; and the "Operating Rules and Regulations Governing Drilling Procedures in the Great Salt Lake," adopted July 18, 1973, by the Board of Oil, Gas and Mining.

However, said approval shall be contingent upon the following:

1. A surveyor's plat being furnished this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure. One is required on each well;
2. The blowout prevention equipment being tested by an independent source after initial installation on all of the above wells;
3. Notification as to the name of the drilling contractor and the rig number used prior to commencement of spudding operations;
4. A drilling and plugging bond being filed with the Division of State Lands prior to commencement of operations.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer
Office: 533-5771
Home: 876-3001

Amoco Production Company
January 4, 1979
Page 2

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are:

H-1 43-003-30011
H-1 43-003-30018
O-1 43-003-30012

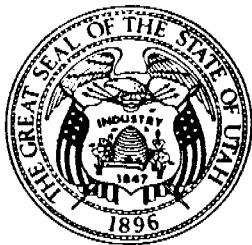
Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Hinder
Geological Engineer

/bcm

cc: Donald Prince



DIVISION OF STATE LANDS
DEPARTMENT OF NATURAL RESOURCES
ROOM 411 EMPIRE BUILDING
231 EAST 400 SOUTH
SALT LAKE CITY, UTAH 84111
(801) 533-5381

Scott M. Matheson
Governor

Gordon E. Harmston
Executive Director
Dept. of Natural Resources

William K. Dinehart
Director

CONFIDENTIAL

January 24, 1980

Amoco Production Company
P.O. Box 17675
Salt Lake City, UT
84117

ATTENTION: W.M. JONES

Dear Mr. Jones:

This is to advise you that the Board of State Lands at its meeting held January 16, 1980, approved the drilling of your State of Utah "N" #1 well in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 4, T15S, R15W, S4W, Tooele County.

I trust this will be sufficient for your needs.

Yours very truly,

DONALD G. PRINCE
ASSISTANT DIRECTOR

DGP/bp

CC Amoco Production Company
Security Life Building
Denver, CO 80202
ATTENTION: CARROL JONES

✓ Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

RECEIVED
JAN 28 1980
DIVISION OF
OIL, GAS & MINING

BOARD MEMBERS

Warren C. Haycock Chairman
Northern

Dr. Walter D. Talbot
ex-officio

Jack Sawyers
Southwestern

Hollis Hullinger
Eastern Area

Arden B. Gundersen
Forestry & Fire

Paul S. Rattle
Southeastern

Margaret Bird
Central



DIVISION OF STATE LANDS
DEPARTMENT OF NATURAL RESOURCES
ROOM 411 EMPIRE BUILDING
231 EAST 400 SOUTH
SALT LAKE CITY, UTAH 84111
(801) 533-5381

Scott M. Matheson
Governor

Gordon E. Harmston
Executive Director
Dept. of Natural Resources

William K. Dinehart
SALT LAKE DIRECTOR
RECEIVED

DEC 31 1979

ROUTE AS FOLLOWS

D SUPT.	
D A SUPV	12/31/79
D ENGR	
AS-FINC	
AS-PROD	
AS-MATL	
DF-DRL	
DF-COMP	

PER	CONT	MAN
SE		PLT

December 28, 1979

RAT
WRL
JRM
GWC

JMA 12-80

Mr. William M. Jones
District Superintendent
Amoco Production Company
Post Office Box 17675
Salt Lake City, UT
84117

Dear Mr. Jones:

This will acknowledge receipt of your letter of December 15, 1979 concerning your application for a permit to drill State of Utah "N" #1 well in Tooele County, Utah, and your letter of December 20, 1979, concerning a permit to drill State of Utah "M" #1 well in Box Elder County, Utah.

Please be advised that you are hereby given permission to drill the State of Utah "M" #1 well in Box Elder County, Utah. The Staff of the Division of State Lands has examined your request for a permit and have found that it will not require a hearing before the Board of State Lands for approval of this particular permit. We have, however, determined that in the case of State of Utah "N" #1 in Tooele County, a hearing will be held on your application before the Board of State Lands at 1:30 p.m., January 16, 1980, in Room 420 Empire Building, 231 East Fourth South, Salt Lake City, Utah.

At this time, it would be appreciated if you could have representatives of Amoco Production Company present to make a presentation to the Board of State Lands concerning your operations on the Great Salt Lake to the present date and also to answer any questions of the Board concerning your application for a permit to drill the State of Utah "N" #1 well.

If you have any questions concerning this matter, please let me know as soon as possible.

Yours very truly,

WILLIAM K. DINEHART
DIRECTOR

CONFIDENTIAL

WKD/DGP/vb1

cc Mr. Carroll Jones, Amoco Production Company

BOARD MEMBERS

Warren C. Haycock Chairman
Northern

Dr. Walter D. Talbot
ex-officio

Jack Sawyers
Southwestern

Hollis Hullinger
Eastern Area

Arden B. Gundersen
Forestry & Fire

Paul S. Rattle
Southeastern

Margaret Bird
Central

PROOF READ LT LB

MINERAL LEASE NO. _____

MINERAL LEASE APPLICATION NO. 28633

GRANT: School

OIL, GAS AND HYDROCARBON LEASE

This indenture of lease entered into this 1st day of June, 1973, by and between the State Land Board, Room 105, State Capitol Building, Salt Lake City, Utah, acting in behalf of the State of Utah, hereinafter called the LESSOR, and

AMOCO PRODUCTION COMPANY
Security Life Building
Denver, Colorado 80202

hereinafter called the LESSEE, whether one or more.

WITNESSETH:

Section 1. RIGHTS OF LESSEE - That Lessor, in consideration of the rents and royalties to be paid and the covenants and agreements hereinafter contained and to be performed by Lessee, does hereby grant and lease to Lessee the following described tract of land in the County of Box Elder, State of Utah, to-wit:

Bed of the Great Salt Lake in:

All of Sections Twenty-nine (29), Thirty (30), Thirty-one (31), Thirty-two (32), Township Seven (7) North, Range Six (6) West, Salt Lake Meridian,

containing 2560.00 acres, more or less for the purposes and with the exclusive right of prospecting for, of mining for, of excavating, quarrying, or stripmining for and/or drilling for oil, natural gas, elaterite, ozocerite, other hydrocarbons (whether the same be found in solid, semi-solid, liquid, vaporous or any other form) including tar, bitumen, asphaltum, and maltha, other gases (whether combustible or non-combustible), sulphur (except the metallic sulphides such as pyrite, marcasite and chalcopyrite) and associated substances of whatever kind or nature and whether or not similar to those hereinabove mentioned but excluding coal and oil shale (the hydrocarbons and other materials granted hereby being hereinafter collectively called "said substances") and producing, taking and removing such substances from the above described lands, the Lessee to have the rights to construct and maintain on said lands all works, buildings, plants, waterways roads, communication lines, pipelines, reservoirs, tanks, pumping stations, or other structures necessary to the full enjoyment thereof, subject however, to the conditions hereinafter set forth.

Section 2. TERM OF LEASE - This lease unless terminated at an earlier date as hereinafter provided, shall be for a primary term of ten years from and after the first day of the month next succeeding the date of issuance hereof and for so long thereafter as any of said substances is produced in commercial quantities from the leased premises.

If operations are being diligently prosecuted on the leased premises at the end of the primary term, this lease shall be automatically extended while such operations are in progress and if production in commercial quantities shall result therefrom this lease shall be extended for so long as any of said substances is produced in commercial quantities.

In respect to the duration of the term of this lease, gas shall be deemed to be produced in paying quantities from any shut-in gas well on the leased lands which is capable of producing gas in paying quantities whenever and at such times as such gas cannot be reasonably marketed at a reasonable price by reason of existing marketing or transportation conditions: Provided, however, that Lessee shall pay to the state an additional rental equal to the annual rental payable by such Lessee under the terms of the lease, said rental to be paid on or before the annual rental paying date next ensuing after the date said well was shut-in, and on or before said rental date thereafter. Upon the commencement or marketing of gas from said well or wells, the royalty paid for the lease year in which the gas is

first marketed shall be credited upon the rental payable as provided hereunder to the state for such year.

The phrase "produced in paying quantities" as used in this lease shall mean the production of said substances from the above described lands in an amount which is sufficient during each lease year to yield a minimum royalty payment to Lessor equal to \$1.50 per acre for all acres of land held by Lessee under this lease.

Section 3. ANNUAL RENTAL -- Lessee agrees to pay to Lessor annually in advance as rental the sum of one dollar (\$1.00) per acre, or fractional part thereof, per annum. Any such rental paid hereunder shall be credited against the royalties, if any, which may accrue on production during the lease year for which such rental is paid.

Section 4. ROYALTIES

(a) Oil - Lessee agrees to pay to Lessor a royalty of twelve and one-half percent (12½%) of the oil produced, saved and sold from the leased premises: or at the option of Lessor, to pay to Lessor the cash value of such royalty. When paid in money, the royalty shall be calculated upon the reasonable market value of the oil at the well, including any subsidy or extra payment which the Lessee, or any successors in interest thereto, may receive, without regard to whether such subsidy or extra payment shall be made in the nature of money or other consideration, and, in no event shall the royalties be based upon a market value less than that used by the United States in the computation of royalties, if any, paid by this lessee to the United States of America on oil of like grade and gravity produced in the same field. When Lessor elects to take royalty oil in kind, such royalty oil shall be delivered on the premises where produced without cost to Lessor at such time and in such tanks provided by Lessee as may reasonably be required by Lessor, but in no event shall Lessee be required to hold royalty oil in storage beyond the last day of the calendar month next following the calendar month in which the oil was produced. Lessee shall not be responsible or be held liable for the loss or destruction of royalty oil in storage from causes under which Lessee has no control. For royalty purposes, the word "oil" shall mean crude petroleum oil and any other hydrocarbons, regardless of gravities, which are produced at the well in liquid form, provided, however, oil produced from a reservoir with zero or near zero initial shut-in pressure shall bear the royalty rate specified in Section 4 (c).

(b) Gas - Lessee agrees to pay to Lessor twelve and one-half percent (12½%) of the reasonable market value at the well of all gas produced and saved or sold from the leased premises. Where gas is sold under a contract, and such contract has been approved in whole or conditionally by the Lessor, the reasonable market value of such gas for the purpose of determining the royalties payable hereunder, shall be the price at which the production is sold, provided that in no event shall the price for gas be less than that received by the United States of America for its royalties from gas of like grade and quality from the same field; provided, however, the reasonable market value of processed or manufactured or extracted products for the purpose of computing royalty hereunder, shall be the value after deducting the costs of processing, extracting, or manufacturing, except that the deduction for such costs may not exceed 2/3 of the amount of the gross of any such products without approval by the Lessor and, provided further, that the market value of extracted, processed, or manufactured products used in the computation of royalties hereunder shall not be less than the value used by the United States in its computation of royalties on similar products resulting from Production of like grade and quality in the same field.

(c) Other Substances - For the first ten years of commercial production, Lessee agrees to pay Lessor a royalty of six and one-fourth percent (6¼%) of the reasonable market value of all other hydrocarbon substances which are produced from a reservoir where the initial shut-in pressure is zero or near zero which in the discretion of the Land board indicates the absence of sufficient motive force for the leased substances to enter the well bore, and where the said substances cannot be produced except by mining or removing the host rock or require the application of heat and/or solvents to remove the hydrocarbon substances from the host rock into the well bore or other form of catch trap or basin. The royalty may, at the discretion of Lessor, be increased after the first ten years of commercial production at a rate not to exceed one percent (1%) per annum until a maximum of 12½% is reached; provided, however, notwithstanding the foregoing, the royalty which lessee shall pay at any time under this lease may, after notice and hearing, be fixed by Lessor up to the highest royalty rate then being paid, but in any event not to exceed 12½% by a Lessee producing from the same general area, reservoir, or deposit.

(d) Sulphur - Lessee agrees to pay Lessor 12½% percent of the reasonable market value of all sulphur which Lessee shall produce, save, or sell from the leased premises.

The basis for computing the reasonable market value of substances covered in the (c) and (d) shall be as follows:

(i) If the substances are sold under a bonafide contract of sale, the amount of money or its equivalent actually received from the sale of the substances less reasonable costs, if any, of transporting the substances from the place where extracted to the place where, under the contract of sale, the leased substances are to be delivered, shall be regarded as the reasonable market value.

(ii) If the lease substances extracted are treated at a mill, smelter, processing plant or reduction works which receives the substances from independent sources and which is owned or controlled by the same interests owning or controlling the mine, such treatment shall be treated as a sale within the meaning of this section for the purpose of determining market value, and in such event a rate or charge for sampling, assaying, milling, smelting or refining the leased substances therefrom shall be deducted, which shall not exceed an amount to be determined by applying the same rates as are applied by such mill, smelter, or reduction works or competing works on ores of substantially like characteristics and like quantities received from independent sources. In the event of controversy, the Lessor shall have the power to determine such rates and charges. Transportation charges may also be deducted as provided in subdivision (i) hereof.

(iii) If a mill or other reduction works is operated exclusively in connection with a mine, such mill or reduction works shall be treated as a part of the mine, and the costs of operating the mill or reduction works shall, for the purpose of fixing the royalty set forth in this lease, be regarded as part of the costs of mining, and the proportionate cost of assaying, sampling, smelting, refining, and transportation only shall be deducted as herein provided.

(e) Time of Payment - All royalty on production during any calendar month shall be due and payable by Lessee to Lessor not later than the last day of the calendar month following that in which produced.

(f) Lessor agrees that upon request by the Lessee and after notice and hearing, upon good cause shown, the annual rental and/or the royalty rates specified in this lease may be reduced at the discretion of Lessor. However, upon the reduction of said rates, Lessor reserves the right to and Lessee agrees to reduce all outstanding overriding royalty interests proportionately.

Lessor may at its option take its royalty gas in kind at the well heads, provided expressly that Lessee shall be under no obligation to furnish any storage facilities for royalty gas.

Section 5. RIGHTS RESERVED TO LESSOR - The Lessor expressly reserves:

(a) Easements and Rights of Way - The right to permit for joint or several use in a manner which will not unreasonably interfere with Lessee's operations hereunder, such easements or rights of way upon, through or in the land hereby leased as may be necessary or appropriate to the workings of other lands belonging to the Lessor containing mineral deposits, or to the working of the land hereby leased for other than the hereby leased substances, and for other public purposes.

(b) Surface Disposition - Leasing for Other Deposits - The right to use, lease, sell or otherwise dispose of the surface of said hereby leased lands, or any part thereof, under existing state laws, subject to the rights herein granted and insofar as in the judgment of the Lessor, said surface is not necessary for the use of the Lessee in the exercise of the rights granted Lessee hereunder; and also the right to lease mineral deposits, other than the hereby leased substances, which may be contained in said hereby leased lands.

(c) Unitization - The right, with the consent of the Lessee, to commit the hereby leased lands to a unit or co-operative plan of development and to establish, alter or change the drilling, producing and royalty requirements and term of this lease to conform thereto.

(d) Production Control - The right to alter or modify the quantity and rate of production to the end that waste may be eliminated or that production may conform to the Lessee's fair share of allowable production under any system of state or national curtailment and proration authorized by law.

Section 6. DRILLING AND DEVELOPMENT PROVISIONS PERTAINING TO OIL AND GAS OPERATIONS.

(a) Special conditions to which Lessee agrees:

(1) Notwithstanding the granting of this oil, gas and hydrocarbon lease, no drilling or production activities shall be conducted within the following described areas, without further authorization in writing from the Land Board:

A. Within any area south of the Salt Lake base line.

B. Within any area north of Township 10 North.

C. Within one mile of islands in Great Salt Lake at any time, nor within three miles of Gunnison Island during the nesting season of the white pelican, which nesting season is from March 15th to September 30th.

D. Within one mile inside what would be the water's edge if the water level of Great Salt Lake were down to elevation 4,193.3 feet above sea level.

E. Leased lands hereinafter more particularly described within Townships 1 and 2 North, Ranges 3 and 4 West, Township 3 North, Range 4 West, and in Township 4 North, Range 4 West, of the Salt Lake Base and Meridian:

Township 1 North, Range 3 West, SLM

All of Sections 6, 7, 8, 9, 15, 16, 17, 18, 19, 20, 21, 22, 27, 28, 29, 30, 31, 32, 33.

Township 1 North, Range 4 West, SLM

Section 1: All

Township 2 North, Range 3 West, SLM

All of Sections 30 and 31

Township 2 North, Range 4 West, SLM

All of Sections 2, 3, 10, 11, 12, 13, 14, 15, 22, 23, 24, 25, 26, 35, 36.

Township 3 North, Range 4 West, SLM

All of Sections 3, 4, 5, 6, 8, 9, 10, 11, 14, 15, 16, 21, 22, 23, 26, 27, 28, 33, 34, 35.

Township 4 North, Range 4 West, SLM

All of Sections 15, 16, 17, 19, 20, 21, 22, 27, 28, 29, 30, 31, 32, 33, 34.

(2) Whether drilling or production activities shall be permitted upon or within the above-specified restricted portions of the leasehold, shall be determined at a further hearing or further hearings before the Land Board. The decision to permit drilling or production activities or not to permit such activities shall be in the sole discretion of the Land Board.

(3) Lessee shall have access over, through, or across said conditionally restricted areas for drilling or producing operations on other portions of the leasehold, but where Lessee wishes to cross State lands and State areas not covered by this lease to obtain access to leased areas for such operations permission to do so shall be obtained from the Director of the Division of State Lands.

(4) In addition to the notices required by law to be filed with the Division of Oil and Gas Conservation, Lessee shall furnish a copy of each such notice to the Division of State Lands for its information. In the conduct of all operations hereunder Lessee shall employ safe, efficient and modern engineering and production techniques designed to prevent contamination or pollution of the waters of the Great Salt Lake. Lessee shall comply with all rules and regulations issued by the Division of Oil and Gas Conservation and with applicable rules and regulations of other State agencies having jurisdiction covering any of Lessee's operations under this lease.

(5) Within this leasehold modern techniques shall be used both in seismograph operations and in all other exploratory operations. In seismograph operations, Lessee will produce vibrations by air-guns suspended under water attached to cables towed by boat or barge, or by employment of other modern methods and techniques, but not by any methods which shall involve use of any explosives or pollutants.

(6) Lessee agrees to indemnify and hold harmless the State of Utah from and against all damages, liabilities, and expenses resulting from Lessee's operations under this lease. In the event of any oil spill, or the spilling of any polluting substance or substances produced or used by Lessee in carrying on its operations, Lessee at its sole cost and expense shall be responsible to clean up such oil spill and such pollutant, regardless of where any such spilling may migrate, whether onto State, Federal or private property. In addition, Lessee shall pay any and all damages for which the State is held liable as a result of such spillage, and Lessee agrees to indemnify the State for any such damage and costs. Nothing herein shall impose any obligation on Lessee to clean up or remove any oil seep, oil spill or pollutant spill presently existing, or to clean up or remove any oil seep, oil spill or pollutant spill hereafter occurring if Lessee can establish that such seep or spill was not caused by Lessee or did not emanate from Lessee's operations or facilities.

(7) In the event that any damage incurred by any third party is a direct result from any such oil or pollutant spill or from other operations by Lessee, such damage will be regarded as the fault of the Lessee unless Lessee can prove that it was not at fault or negligent, in which case Lessee shall have a right to obtain a judicial determination of no liability. The State shall not be made a party to any such action by the Lessee without the written consent of the State given as provided by law.

(b) Offset Wells -- Subject to the rights of surrender as provided in this lease, Lessee shall protect the oil and gas under the leased premises from drainage from adjacent lands or leases, and the Lessor expressly reserves the right to require the commencement, completion, and operation of a well or wells which the Lessor considers necessary for the protection of the leased premises from adjacent lands or leases.

(c) Diligence -- Proper Operations -- Lessee agrees:

(1) To conduct all operations under this lease in accordance with Lessor's rules and regulations governing exploration for and production of oil and gas which are now in force, and with such reasonable rules and regulations which hereafter may be adopted by the Lessor; and

(2) To drill any well in conformity with law and with the rules and regulations of the Division of Oil and Gas Conservation; and

(3) To securely and properly plug in an approved manner any well before abandoning it; and

(4) To take every reasonable precaution to prevent water from migrating from one stratum to any other and to protect any waterbearing stratum from contamination; and

(5) To conduct all operations subject to inspection of the Lessor and to carry out at the Lessee's expense all reasonable orders and requirements of the Lessor relative to the prevention of waste and preservation of the property, and the health and safety of workmen; and on failure of the Lessee so to do, the Lessor shall have the right, together with other recourse herein provided, to enter on the property to repair damages to prevent waste at the Lessee's expense; and

(6) To carry on all operations hereunder in a good workmanlike manner in accordance with approved methods and practices, having due regard for the prevention of waste of oil and gas, or the entrance of water to the oil or gas bearing sands or strata, to the destruction or injury of such deposits, to the preservation and conservation of the property for future productive operations, and to the health and safety of workmen and employees; and

(7) After discovery, and subject to the right of surrender herein provided, to exercise reasonable diligence in producing oil and gas and in the drilling and operating of wells on the land covered hereby, unless consent to suspend operations temporarily is granted by the Lessor; and

(8) To reimburse the State of Utah as the owner or lessee of the surface of the leased premises for actual damages thereto and injury to improvements thereon resulting from Lessee's operations hereunder; and

(9) To take all reasonable and prudent measures for the protection of the leasehold estate from injury in the operations of Lessee.

Section 7 - BOND - Lessee agrees at the time of commencement of operations to furnish a bond with an approved corporate surety company authorized to transact business in the State of Utah, or such other surety as may be acceptable to the Lessor, in the penal sum of not more than Five Thousand Dollars (\$5,000.00) conditioned upon the payment of all moneys, rentals, and royalties accruing to the Lessor under the terms hereof, and upon the full compliance with all other terms and conditions of this lease and the Rules and Regulations relating hereto, and also conditioned on the payment of all damages to the surface and improvements thereon where the lease covers lands, the surface of which has been sold or otherwise leased. Such bond or bonds furnished prior to the development of the lands contained in this lease may be increased in such reasonable amounts as the Lessor may decide after discovery of said substances.

The lessor may waive the provisions of this section, as to this lease, upon the furnishing of a blanket bond by lessee extending to and including lessee's operations hereunder.

Section 8. LOGS - REPORTS - MAPS - Lessee agrees to keep a log, in a form approved by the Oil and Gas Conservation Board, of each well drilled by Lessee on the leased lands, and agrees to file the same, together with such reports, maps and supplements as may be required, with said Commission. Lessee also agrees to furnish Lessor copies of such logs, reports, and any other information which Lessor may request from time to time.

Section 9. NOTICE OF WATER ENCOUNTERED - In the drilling of wells under authority of this lease, all water-bearing strata shall be noted in the log and Lessee shall promptly give notice to Lessor when water has been encountered and such notice shall include an estimate of the possible amount of flow of said water and whether or not the water is fresh water.

Section 10. DEFAULT OF LESSEE - Upon failure or default of the Lessee to comply with any of the conditions or covenants herein, the Lessor may cancel this lease and such cancellation shall extend to and include all rights granted hereunder as to the whole of the tract hereinabove described, but shall not extend to nor affect the rights of this Lessee under other leases or partial assignments of this lease which have been approved by Lessor upon which no default has been made, provided, however, that in the event of any default by Lessee, Lessor shall, before cancellation, send a notice of intention to cancel said lease to the Lessee by registered or certified return receipt mail addressed to the post office address of said Lessee as first hereinabove stated or as shown by the records of the Lessor, which notice shall specify the default for which cancellation is to be made, and, if within thirty (30) days from the date of mailing said notice, Lessee has not remedied the violation or rectified the condition specified and notified Lessor thereof in writing, Lessor may thereupon cancel the lease without further notice to Lessee.

Section 11. OPERATION REQUIREMENTS - PREVENTION OF WASTE - Lessee covenants that no waste shall be committed on the land and agrees to develop and produce said substances which are susceptible of production with reasonable care and skill and in conformity with all applicable laws of the United States and the State of Utah, and the rules and regulations of the State Land Board now in effect or hereafter promulgated, and to carry on all mining, extractions, reducing, refining, and other operations on or below the surface of the earth by safe and economically feasible methods and practices and to take all proper and reasonable steps and precautions to prevent waste of or damages to said substances or other mineral deposits on said land. Should Lessee elect to dump waste products upon the leased lands, Lessee shall secure Lessor's consent as to the situs and manner of maintenance of the waste dump; it being understood that Lessor contemplates designating the manner of operation and maintenance of a waste dump so that the land used for dumping of waste will be suitable for other uses. Lessee shall not fence any watering place upon the leased lands without prior approval of Lessor, nor shall Lessee permit or contribute to the pollution of waters useful for domestic or agricultural purposes.

In those instances where strip or open-pit mining operations or other operations which will disturb the surface of Lessor's lands are utilized, Lessor may require rehabilitation of the surface of the disturbed area. At lease 30 days prior to commencement, Lessee will submit to Lessor plans for such operations. Lessor will at the time outline the rehabilitation program required by Lessor for the particular property in question. In all cases the Lessee must agree to slope the side of all excavations to the ratio of not more than one foot (1') vertically for each two feet (2') of horizontal distance unless otherwise approved by the Lessor prior to commencement of operations. Such sloping is to become a normal part of the operation of the leased premises so as to keep pace with such operation to the extent that such operation shall not at any time constitute a hazard. Whenever practicable, all pits or excavations shall be shaped to drain, and in no case shall the pits or excavations be allowed to become a hazard to persons or livestock. All material mined, but not removed from the premises, is to be used to fill the pits and leveled, unless consent of the Lessor to do otherwise is obtained so that at the termination of the lease the land will as nearly as practicable approximate its original configuration. The lessee or operator must strike off the peaks and ridges of spoil banks to a width satisfactory to the Board. Lessor may require that all topsoil in the affected area shall be removed and stockpiled until the completion of operations when in its opinion such action is justified. Upon completion of operations, the stockpiled topsoil will be redistributed on the affected area, and the land reseeded with grasses and/or native plants by lessee as prescribed by Lessor.

Section 12. MAPS AND REPORTS - Where Lessee conducts mining operations under this lease, Lessee agrees to keep clear, accurate and detailed maps on tracing cloth, on a scale of not more than fifty (50) feet to the inch, of Lessee's working in each section of leased lands, oriented to a public land corner so that the maps can be readily and correctly superimposed, and to furnish to the Lessor annually, or upon demand, certified copies of such maps and any written reports of operations as Lessor may call for.

Section 13. IMPROVEMENTS AND REMOVAL OF SAME - Upon termination of this lease for any cause, the Lessee, upon payment of all amounts due Lessor, shall remove from the leased premises all property (including fixtures), machinery, equipment, and supplies. The leased land shall be surrendered in good usable condition in as near the natural condition of the land as is reasonably practical.

Section 14. LESSOR'S RIGHT OF ACCESS TO LEASED PREMISES AND LESSEE'S RECORDS - Lessor its officers and agents, shall have the right at all reasonable times to go in and upon the leased lands and premises during the term of the lease to inspect the work done thereon and the progress thereof, and the products obtained therefrom, and to post any notice on the said lands that it may deem fit and proper. Lessee shall permit any authorized representative of the Lessor to examine all books and records pertaining to operations and royalties payable to Lessor under the lease, and to make copies of and extracts from such books and records if desired.

Section 15. SURRENDER BY LESSEE - Lessee may surrender this lease for cancellation by Lessor as to all or any part of the leased lands, but not less than a quarter-quarter section or surveyed lot, upon payment of all rentals, royalties, and other amounts due Lessor and by filing with the Lessor a written relinquishment. The relinquishment shall be effective as to future rental liability on the date of filing such relinquishment, but otherwise on the date of cancellation by Lessor.

Section 16. WATER RIGHTS - If the Lessor shall initiate or establish any water right upon the leased premises, such right shall become an appurtenance of the leased premises, and, upon the termination of the lease, shall become the property of the Lessor.

Section 17. DISCOVERY OF OTHER MINERALS - Upon such notification of the Lessee to the Lessor, the Lessee shall have 60 days in which to request that the Lessor issue a lease on the newly discovered mineral substances in line with the form of lease and regular rules and regulations of the State Land Board regarding such mineral substances.

Section 18. TITLE OF THE LESSOR - The State of Utah asserts title to the bed of Great Salt Lake in the sovereign capacity of the State, by virtue of a decision of the Supreme Court of the United States dated June 7, 1971. The State asserts title to the mineral estate within, below and above the bed of Great Salt Lake, including minerals in the waters of the lake. Under the multiple leasing policy of the State, the State has heretofore issued mineral leases covering certain minerals. The Lessor reserves the right to lease to third parties minerals other than those covered by this lease. The Lessor makes no express nor implied covenants of warranty. If a third party lessee of the State, or some person not a

lessee of the State, shall assert some title claim adverse to either the Lessor or to the Lessee herein, the State shall have the right, but not the duty, to take any steps or legal action or other proceedings which the State deems expedient in order to protect the rights and interests of the State. The State does not guarantee nor warrant that third parties and groups of persons will refrain from interference with operations of the Lessee or contemplated operations under this lease

Without admitting any less than the full fee simple title, if, in any event, the lessor owns a lesser interest in the leased premises than the entire fee simple estate in the leased minerals for which rental and royalty are payable, then the rentals and royalties provided shall be paid to Lessor only in proportion which its interest bears to said whole and undivided fee simple estate in the said minerals for which royalty is payable.

Section 19. TRANSFERS OF INTEREST BY LESSEE - Lessor will not permit any assignment of this lease, or of any interest therein, or any sublease or operating agreement as to the leased lands, or any portion thereof, unless and until such assignment, transfer, sublease or operating agreement is approved by the Lessor. Any such instrument shall be filed with Lessor within ninety days from the date of final execution thereof, and when and provided it is approved by the Lessor, shall take effect as of the date of its execution. Subject to the necessity of approval as herein set out, all of the terms, covenants, conditions, and obligations of this lease shall extend to and shall be binding upon the successor in interest of the Lessee. The Lessee further agrees not to enter into any agreements limiting, restricting, prorating, or otherwise affecting the natural production from said lands in any way or in any event without the consent in writing of the Lessor first had and obtained.

Section 20. NOTICES - All notices herein provided to be given or which may be given by either party to the other, except as otherwise provided by law, shall be deemed to have been fully given when made in writing and deposited in the United States mail, postage prepaid, and addressed to the last known address of the parties.

Section 21. CONSENT TO SUIT - Lessee consents to suit in the courts of the State of Utah in any dispute arising under the terms of this lease or as a result of operations carried on under this lease. Service of process in any such action is hereby agreed to be sufficient if sent by registered mail to the Lessee at the last known address appearing on Lessor's records.

Section 22. ATTORNEY'S FEES - In the event Lessor shall institute and prevail in any action or suit for the enforcement of any provisions of this lease, Lessee will pay to Lessor a reasonable attorney's fee on account thereof.

IN WITNESS WHEREOF, the parties have hereunto subscribed their names the day and year first above written.

STATE OF UTAH
STATE LAND BOARD

By _____
DIRECTOR

LESSOR

LESSEE



Amoco Production Company

Post Office Box 17675
Salt Lake City, Utah 84117
801-272-9253

Martin Zimmerman
District Superintendent

CONFIDENTIAL

May 14, 1980

LOCATION CHANGE -
(Please see survey plat)

State of Utah
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, UT 84116

File: MZ-455-031/WF

Survey Plats - State of Utah "N" #1, Section 4, T1S, R4W, SLBM, Tooele
County, Utah

Enclosed herewith are copies of the final survey plats for the subject well.

Please note that the actual footage location as surveyed with the anchor pilings driven and the barge in place, does differ from the location indicated on the original "Application for Permit to Drill". It is requested that your files be corrected to reflect the actual footage as indicated on the attached plats.

Should you require additional information relative to the State of Utah "N" #1 well, please advise.

Martin Zimmerman

Martin Zimmerman

Attachments
SW/crj

RECEIVED
MAY 20 1980

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML-28495	
2. NAME OF OPERATOR Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 17675, Salt Lake City, UT 84117		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements. See also space 17 below.) At surface SE/4 SW/4 660' FSL & 1980' FWL		8. FARM OR LEASE NAME State of Utah 'N'	
14. PERMIT NO. 43-003-30010		9. WELL NO. #1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4200' Lake Level		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 4 T1S, R4W, SLBM	
		12. COUNTY OR PARISH Tooele	
		13. STATE Utah	

TIGHT
HOLE

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) REVISE PROJECTED TOTAL DEPTH XXX	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company proposes to drill said well to a revised projected total depth of 8,500' in order to test the Tertiary Section.

Information relative to changes in casing programs and revised formation tops is attached.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 6-2-80

BY: *M. Y. Minder*

18. I hereby certify that the foregoing is true and correct

SIGNED *D. S. Davidson*

TITLE Dist. Admin. Supervisor

DATE 5-27-80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

RECEIVED
MAY 29 1980
DIVISION
OIL, GAS, & MINING

*See Instructions on Reverse Side

ATTACHMENT TO FORM OGC-1b

State of Utah 'N' #1

Revised Formation Tops:

Miocene	5000'
Paleozoic	7500'

Revised Casing Program:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight/Grade</u>	<u>Depth</u>
17 1/2"	13 3/8"	48#	In hole
12 1/4"	9 5/8"	43.5# S-95 LT&C	1374'
	"	40# N-80 LT&C	1096'
		40# K-55 LT&C	642'
		40# C-95 LT&C	1000'
		40# SOO-95 LT&C	425'
		40# SS-95 LT&C	760'
		40# S-95 LT&C	1162'

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Amoco (Curt Unger)

WELL NAME: State Ut. #N - 1

SECTION 4 TOWNSHIP 1S RANGE 4W COUNTY Tooele

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 7864

CASING PROGRAM:

20" @ 179'

13 3/8" @ 1550' TOC 194

9 5/8" @ 5075' TOC 4075

11" openhole to 6012'

8 1/2" openhole to 7864'

FORMATION TOPS:

No tops available at this time.

Only 1 DST: 5654 - 5804 recovered 98' WC
Mud.

Cored: 4524-54 ?
7600-02 Fract. Ls
7643-45 " "

Loss Circ. Zone at 7600 +

PLUGS SET AS FOLLOWS:

#1 7864' - 7764'

#2 Openhole bridge plug set at 7600' with 10 SX of cement on top.

#3 5175' - 4975'

#4 Perforate 9 5/8" casing at 1650' squeeze, retainer set at 1450' place cement plug from 1650' - 1400'.

#5 Cut off 9 5/8" casing at 100'; Surface casing & conductor at 20'+,
Set retainer at 200' and cement to surface.

DATE 6-3-80

4:00 p.m.

SIGNED

M.T.M.

M.T.M. Minder

cc: Amoco

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT **TRIPPLICATE***
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. ML-28495
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> P & A		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 17675, Salt Lake City, UT 84117		8. FARM OR LEASE NAME State of Utah "N"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SE/4 SW/4 Sec. 4 660' FSL & 1980' FWL		9. WELL NO. #1
14. PERMIT NO. 43-003-30010		10. FIELD AND POOL, OR WILDCAT Wildcat
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4200' Lake Level		11. SEC., T., R., M., OR BLM. AND SURVEY OR ABBA Sec. 4 T1S, R4W, SLBM
12. COUNTY OR PARISH Tooele		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well was plugged 6-9-80 in the following manner:

T.D. 7864'

Casing: 20" casing driven to 179'
 13 3/8" casing set at 1528'
 9 5/8" casing set at 5075'

Plugs: 65 sx plug at 7764'-7864' to seal bottom hole.
 Set Lynes inflatable bridge plug above 7600' to seal loss zone
 10 sx plug on top of bridge plug to seal plug.
 125 sx plug at 4975'-5175' to seal 1/2 in and 1/2 out of longstring
 Perforate at 1628' & 1425'
 Set retainer at 1500'
 Squeeze 150 sx to seal 13 3/8" shoe and 128' plug inside 9 5/8"
 Set BP at 200'
 Cut & pull 100' of 9 5/8"
 Cut & pull 13 3/8" & 20" 15' below mudline
 Set 250 sx plug 200'-sea floor to seal surface.

Verbal approval received by Kurt Unger from Mike Minder
 of Utah OGCC on 6-4-80 at 1:00 p.m.

18. I hereby certify that the foregoing is true and correct

SIGNED Original Signed By
D. S. DAVIDSON

TITLE Dist. Admin. Supervisor DATE 6-10-80

(This space for Federal or State office use)

APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

RECEIVED
 JUN 13 1980

*See Instructions on Reverse Side

DIVISION OF
 OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

14

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☒

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 17675, Salt Lake City, UT 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface SE/4 SW/4 Sec. 4 600 FSL & 1980 FWL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
ML-28495

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
State of Utah 'N'

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 4 T1S, R4W, S1E1M

12. COUNTY OR PARISH
Tooele

13. STATE
Utah

14. PERMIT NO.
43-005-30010

DATE ISSUED
1-4-80

15. DATE SPUDDED
4-27-80

16. DATE T.D. REACHED
6-9-80

17. DATE COMPL. (Ready to prod.)
6-9-80 P & A

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
4200' Lake Level

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
7864'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY
Surface - TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-SFL, Sonic, CNL-FDC, Dipmeter

27. WAS WELL CORED
Yes

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	14#	179'	Driven		
13 3/8"	68.61, 54.5#	1528'	12 1/4" & 17 1/2"	600 sx Class G	
9 5/8"	40 & 43.5#	5075'	11" & 12 1/4"	325 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)
None

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33.* PRODUCTION

DATE FIRST PRODUCTION
None P & A

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
None P & A

DATE OF TEST
None P & A

HOURS TESTED
None P & A

CHOKE SIZE
None P & A

PROD'N. FOR TEST PERIOD
None P & A

OIL—BBL.
None P & A

GAS—MCF.
None P & A

WATER—BBL.
None P & A

GAS-OIL RATIO
None P & A

FLOW. TUBING PRESS.
None P & A

CASING PRESSURE
None P & A

CALCULATED 24-HOUR RATE
None P & A

OIL—BBL.
None P & A

GAS—MCF.
None P & A

WATER—BBL.
None P & A

OIL GRAVITY-API (CORR.)
None P & A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
None P & A

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Davidson TITLE Dist. Admin. Supervisor DATE 6-18-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH
Core #1	4524'	4554'	Cut 30'		
Core #2	7600'	7602'	Cut 2' quartzite, Rec. 4"		
Core #3	7643'	7645'	Cut 2' Rec. 2' Tuff & frac.		
DST #1	5669'	5687'	Rec. 637-544 water cushion. 93 wtr cut mud. Sampler 2100 cc drlg. mud. IHP 2754, IOP 375, ISIP 375-838 FOP 375, FSIP 375-906, FHP 2704 Mud wt. 9.1		
DST #2	7658'	7680'	IHP 4351, FHP 4351, Rec. 90 bbls 1000' of fres wtr. cushion, Mud wt. 8.8		

February 13, 1981

Amoco Production Company
P.O. Box 17675
Salt Lake City, Utah 84117

RE: Well No. State of Utah "N" #1
Sec. 4, T. 1S, R. 4W.,
Tooele County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office June 18, 1980, from above referred to well indicates the following electric logs were run: SIL-SFL, Sonic, CNL-FDC, Dipmeter. As of today's date this office has not received the Dipmeter log.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING



BARBARA HILL
WELL RECORDS

/bjh